

CWU Table Item #: 0100 (1 column)

TABLE I

	DESCRIPTION
<u>BASE COMMANDS</u>	
RD_PHONE_NUMBER	Read the telephone's phone number
RD_PHONE_CALLS	Read the telephone's call data activity storage
RD_PHONE_TIME	Read the current time from the phone
WR_PHONE_TIME	Set the current time from the phone
RD_PHONE_RTb	Read the phone's software revision number
LOCK_PHONE	Lock the phone from use
UNLOCK_PHONE	Unlock phone for use
RD_CALL_COUNTER	Read the number of calls made during the period
RD_COMMAND_STATUS	Read status of last command issued
RESET_CALLS_MEMORY	Reset/erase the call activity storage data
RESET_CALLS_COUNTER	Reset the call counter to 0
RESTRICT_ILLEGAL_CALLS	Restrict all illegal calls
ENABLE_ALL_CALLS	Deactivate the call restriction
RD_TELEPHONE_ESN	Read the phone's electronic serial number
WR_NAM	Write NAM parameters to the phone
RD_NAM	Read the current NAM parameters from the phone
WR_SCRATCH_PAD	Store a small amount of data in the phone
RD_SCRATCH_PAD	Read the small amount of data from the phone
WR_LOCK_DATE	The date at which the phone will no longer function
RD_LOCK_DATE	Read the lock data from the phone
REGISTRATION	System provider registers itself for use with the phone. (Password is transmitted)
<u>DEBIT COMMANDS</u>	
WR_CONF_DATA	Write debit configuration data to the phone
RD_CONF_DATA	Read the configuration data from the phone
WR_DOLLAR_AMOUNT	Write the maximum dollar amount the phone can be used
RD_DOLLAR_AMOUNT	Read the maximum dollar amount from the phone
DO_CALL_TRACKING	Turn on call tracking
NO_CALL_TRACKING	Turn off call tracking
DO_DEBIT_MODE	Turn on debit mode billing
NO_DEBIT_MODE	Turn off debit mode billing
ENABLE_AIR_ACTIVATION	Turn on over the air debit activation of funds
DISABLE_AIR_ACTIVATION	Turn off over the air debit activation of funds
<u>OTHER RESPONSES</u>	
ACK	Acknowledgment
NAK	Could not understand HOST/PP or Invalid LRC
<u>OTHER INTERACTIVE COMMANDS USING THE PHONE KEY BOARD</u>	
UPDATE_DEBIT_DATA1	Update, over the air, the current additional dollar amount and date of expiration referencing the Telephone License Number
VIEW_CURRENT_AMOUNT	View the current dollar amount left for debit
UPDATE_DEBIT_DATA2	If for some reason the "over the air" updating of the debit data

TABLE I-continued

DESCRIPTION
cannot be successfully completed, the user can be given a license number to manually type in using the keypad via this function

+T1 TABLE I+HZ,1/32

!+HL,18 DESCRIPTION+HZ,1/32 ?

!+TL,1 +UZ,1/10 BASE COMMANDS? +TL,18 ?

!RD+HD +13 +L PHONE+HD +13 +L NUMBER? Read the telephone+3 s phone?

!? number?

!RD+HD +13 +L PHONE+HD +13 +L CALLS? Read the telephone+3 s call data?

!? activity storage?

!RD+HD +13 +L PHONE+HD +13 +L TIME? Read the current time from the?

!? phone?

!WR+HD +13 +L PHONE+HD +13 +L TIME? Set the current time from the?

!? phone?

!RD+HD +13 +L PHONE+HD +13 +L RTB? Read the phone+3 s software?

!? revision number?

!LOCK+HD +13 +L PHONE? Lock the phone from use?

!UNLOCK+HD +13 +L PHONE? Unlock phone for use?

!RD+HD +13 +L CALL+HD +13 +L COUNTER.? Read the number of calls made?

!? during the period?

!RD+HD +13 +L COMMAND+HD +13 +L STATUS? Read status of last command?

!? issued?

!RESET+HD +13 +L CALLS+HD +13 +L MEMORY? Reset/erase the call activity?

!? storage data?

!RESET+HD +13 +L CALLS+HD +13 +L COUNTER? Reset the call counter to 0?

!RESTRICT+HD +13 +L ILLEGAL+HD +13 +L CALLS? Restrict all illegal calls?

!ENABLE+HD +13 +L ALL+HD +13 +L CALLS? Deactivate the call restriction?

!RD+HD +13 +L TELEPHONE+HD +13 +L ESN? Read the phone+3 s electronic?

!? serial number?

!WR+HD +13 +L NAM? Write NAM parameters to the?

!? phone?

!RD+HD +13 +L NAM? Read the current NAM?

!? parameters from the phone?

!WR+HD +13 +L SCRATCH+HD +13 +L PAD? Store a small amount of data in?

!? the phone?

!RD+HD +13 +L SCRATCH+HD +13 +L PAD? Read the small amount of data?

DA: data55 — MD: 8/11/2003 — N: 5,815,611 — F: 03 — 8/21/2003 - 3:20:47 PM

3

!? from the phone?

!WR+HD +13 +L LOCK+HD +13 +L DATE? The date at which the phone will?

!? no longer function?

!RD+HD +13 +L LOCK+HD +13 +L DATE? Read the lock data from the?

!? phone?

!REGISTRATION? System provider registers itself?

!? for use with the phone.?

!? (Password is transmitted)?

!+UZ,1/11 DEBIT COMMANDS?

!WR+HD +13 +L CONF+HD +13 +L DATA? Write debit configuration data to?

!? the phone?

!RD+HD +13 +L CONF+HD +13 +L DATA? Read the configuration data from?

!? the phone?

!WR+HD +13 +L DOLLAR+HD +13 +L AMOUNT? Write the maximum dollar?

!? amount the phone can be used?

!RD+HD +13 +L DOLLAR+HD +13 +L AMOUNT? Read the maximum dollar?

!? amount from the phone?

!DO+HD +13 +L CALL+HD +13 +L TRACKING? Turn on call tracking?

!NO+HD +13 +L CALL+HD +13 +L TRACKING? Turn off call tracking?

!DO+HD +13 +L DEBIT+HD +13 +L MODE? Turn on debit mode billing?

!NO+HD +13 +L DEBIT+HD +13 +L MODE? Turn off debit mode billing?

!ENABLE+HD +13 +L AIR+HD +13 +L ACTIVATION? Turn on over the air debit?

!? activation of funds?

!DISABLE+HD +13 +L AIR+HD +13 +L ACTIVATION? Turn off over the air debit?

!? activation of funds?

!+UZ,1/11 OTHER RESPONSES?

!ACK? Acknowledgment?

!NAK? Could not understand HOST/PP?

!? or Invalid LRC?

!OTHER INTERACTIVE COMMANDS?

!+UZ,1/18 USING THE PHONE KEY BOARD?

!UPDATE+HD +13 +L DEBIT+HD +13 +L DATA1? Update, over the air, the current?

!? additional dollar amount?

!? and date of expiration?

!? referencing the Telephone?

!? License Number?

!VIEW+HD +13 +L CURRENT+HD +13 +L AMOUNT? View the current dollar amount?

!? left for debit?

DA: data55 — MD: 8/11/2003 — N: 5,815,611 — F: 03 — 8/21/2003 - 3:20:47 PM

4

!UPDATE+HD +13 +L DEBIT+HD +13 +L DATA2? If for some reason the +37 over the?

!? air+38 +0 updating of the debit data?

!? cannot be successfully?

!? completed, the user can be?

!? given a license number to?

!? manually type in using the?

!? keypad via this function+TZ,1/32 ?

!+PS

Item character count = 2547

CWU Table Item #: 0120 (1 column)

TABLE II

Acronym	Description
HOST	A systems operator's Personal Computer will be considered the host
PP	The phone unit will be considered the host Phone Peripheral
DB	A Data Byte
CB	A Command Byte
CTI	A Cellular Telephone Interference
ACK	An Acknowledgment from the phone unit
NAK	The PP or HOST did not understand the last set of data retrieved
BCD	Binary Coded Decimal

+T1 TABLE II+HZ,1/32

!+HL,4 Acronym? +HL,11 Description+HZ,1/32 ?

!+TL,4 HOST? +TL,11 A systems operator+3 s Personal Computer?

!? will be considered the host?

!PP? The phone unit will be considered the host?

!? Phone Peripheral?

!DB? A Data Byte?

!CB? A Command Byte?

!CTI? A Cellular Telephone Interference?

!ACK? An Acknowledgment from the phone unit?

!NAK? The PP or HOST did not understand the?

!? last set of data retrieved?

!BCD? Binary Coded Decimal+TZ,1/32 ?

!+PS

Item character count = 395

CWU Table Item #: 0230 (1 column)

TABLE III

Acronyms		
BIT	1 bit of data	(Used as a flag)
BYTE	8 bits of unsigned type	(Like an unsigned char in C language)
INT	16 bits of unsigned type	(Like an unsigned short int in C language)
BYTE[#]	Is a # of Bytes	(Like a storage buffer)
DECIMAL	Up to 32 bits	(Like a float in C/just a decimal number)
RECORD	A collection of the above types	

+T1 TABLE III+HZ,1/32

!+HL,1 Acronyms+HZ,1/32 ?

!+TL,1 BIT? +TL,8 1 bit of data? +TL,20 (Used as a flag)?

!BYTE? 8 bits of unsigned type? (Like an unsigned char in C?

! ? ? language?

!INT? 16 bits of unsigned type? (Like an unsigned short int?

! ? ? in C language)?

!BYTE+8 +190 +9 ? Is a +190 +0 of Bytes? (Like a storage buffer)?

!DECIMAL? Up to 32 bits? (Like a float in C/just a?

! ? ? decimal number?

!RECORD? A collection of the above?

! ? types+TZ,1/32 ?

!+PS

Item character count = 369

CWU Table Item #: 0231 (1 column)

TABLE IV

RECORD of configuration data {	
//This data will tell the phone how to bill calls in any country in the world	
BYTE	Maximum International Digits
BYTE	Minimum International Digits
BYTE	Maximum Long Distant Digits
BYTE	Minimum Long Distant Digits
BYTE	Maximum Local Digits
BYTE	Minimum Local Digits
BYTE[7]	International Access Code
BYTE[7]	Long Distance Access Code
BYTE	Is long distance access code always required?
BYTE[7]	Third party prefix/Operator/Calling Card Digits
//Locator Information	
INT[5]	5 Home SIDs of the phone (Provides seamless roaming etc...)
INT[5]	5 Home area codes of the phone (Provides computability in congested areas)

TABLE IV-continued

//Rate Information	
DECIMAL	Base access per minute charge (Applies to all calls)
DECIMAL	Additional long distance per minute charges
DECIMAL	Additional International per minute charges
DECIMAL	Additional roaming per day charges
DECIMAL	Additional roaming per minute charges
DECIMAL	Additional operator assistance charges, calling card or third party billing, or call surcharge for call content
//Other Information	
BYTE	Base billing delay
BYTE[3]	By YYMMDD date, the phone will lock and display "DATE-LOCKED"
BYTE[7]	Non-billed area code (Expanded to handle 7 digit long distance for third world)
BYTE[3]	YYMMDD is the last date this phone was roaming on
BYTE[5][11]	A block of 5 non-billed phone numbers to call (i.e., 911 and any other user defined)
INT[20]	A block of 20 random numbers [1000,9999] if value for license number decoding)

+T1 TABLE IV+HZ,1/32

!+TL,1 RECORD of configuration data +55 ?

!//This data will tell the phone how to bill calls in any country in the world?

!+TL,1 BYTE? +TL,11 Maximum International Digits?

!BYTE? Minimum International Digits?

!BYTE? Maximum Long Distant Digits?

!BYTE? Minimum Long Distant Digits?

!BYTE? Maximum Local Digits?

!BYTE? Minimum Local Digits?

!BYTE+8 7+9 ? International Access Code?

!BYTE+8 7+9 ? Long Distance Access Code?

!BYTE? Is long distance access code?

!? always required+48 ?

!BYTE+8 7+9 ? Third party prefix/Operator/?

!? Calling?

!? Card Digits?

!//Locator Information?

!INT+8 5+9 ? 5 Home SIDs of the phone (Provides?

!? seamless roaming etc...)?

!INT+8 5+9 ? 5 Home area codes of the phone?

!? (Provides computability in?

!? congested areas)?

!//Rate Information?

!DECIMAL? Base access per minute charge?

7

! ? (Applies to all calls)?
 !DECIMAL? Additional long distance per?
 ! ? minute charges?
 !DECIMAL? Additional International per?
 ! ? minute charges?
 !DECIMAL? Additional roaming per day charges?
 !DECIMAL? Additional roaming per minute?
 ! ? charges?
 !DECIMAL? Additional operator assistance?
 ! ? charges, calling card or third?
 ! ? party billing, or call surcharge?
 ! ? for call content?
 !//Other Information?
 !BYTE? Base billing delay?
 !BYTE+8 3+9 ? By YYMMDD date, the phone will lock and?
 ! ? display +37 DATE-LOCKED+38 ?
 !BYTE+8 7+9 ? Non-billed area code (Expanded to handle 7 digit?
 ! ? long distance for third world)?
 !BYTE+8 3+9 ? YYMMDD is the last date this phone was?
 ! ? roaming on?
 !BYTE+8 5+9 +8 11+9 ? A block of 5 non-billed phone numbers to call?
 ! ? (i.e., 911 and any other user defined)?
 !INT+8 20+9 ? A block of 20 random numbers +8 1000,9999+9 +0 if?
 ! ? value for license number decoding)+TZ,1/32 ?
 !+PS

Item character count = 1560

CWU Table Item #: 0280 (1 column)

M	= Number of minutes the call lasted
L	= Local Call Per Minute Charge
LD	= Long Distance Per Minute Charge
IT	= International Per Minute Charge
RD	= Roaming Per Day Charge
RM	= Roaming Per Minute Charge
Local	= M * L
Long Distance	= M * (L + LD)
International	= M * (L + IT)
Incoming Call	= M * L
Local Roaming Call	= M * (L + RM) + RD (If RD has not been applied today)
Long Distance Roaming	= M * (L + RM + LD) + RD (If RD has not

-continued

International Roaming	been applied today) = M * (L + RM + IT) + RD (If RD has not been applied today)
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+T1 +HZ,1/32

!+TL,1 M? +TL,13 +32 +0 Number of minutes the call lasted?

!L? +32 +0 Local Call Per Minute Charge?

!LD? +32 +0 Long Distance Per Minute Charge?

!IT? +32 +0 International Per Minute Charge?

!RD? +32 +0 Roaming Per Day Charge?

!RM? +32 +0 Roaming Per Minute Charge?

!Local? +32 +0 M * L?

!Long Distance? +32 +0 M * (L +30 +0 LD)?

!International? +32 +0 M * (L +30 +0 IT)?

!Incoming Call? +32 +0 M * L?

!Local Roaming Call? +32 +0 M * (L +30 RM) +30 +0 RD (If RD has not been?

!? +12 +12 +0 applied today)?

!Long Distance Roaming? +32 +0 M * (L +30 +0 RM +30 +0 LD) +30 +0 RD (If RD has not?

!? +12 +12 +0 been applied today)?

!International Roaming? +32 +0 M * (L +30 +0 RM +30 +0 IT) +30 +0 RD (If RD has not?

!? +12 +12 +0 been applied today)+TZ,1/32 ?

!+PS

Item character count = 570

Folder character count = 5441